FORM PTO-14 9 JUL 16 2000 INFORMATION DISCLOSURE

ATTY. DOCKET NO.
1744.0920001

APPLICATION NO.
09/550,642

APPLICANT
Sorrells et al.

FILING DATE
April 14. 2000

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<u></u>					U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- ÇLASS	FILING DATE
	AA1	2,05	57,613	10/19	936	Gard	ner	250 /	8	
	AB1	2,24	41,078	05/19	941	Vree	land	179	15 <b>R</b>	<b>FCEIVED</b>
	AC1	2,27	70,385	01/19	942	Skillr	nan	17,9	15	
	AD1	2,28	33,575	05/19	942	Robe	erts	رَ <u>2</u> 50	6 J	UL 1 8 2002
	AE1	2,35	58,152	09/19	944	Earp		<b>/</b> 179	171.5 oobr	ology Center 2
	AF1	2,41	10,350	10/19	946	Labir	n et al.	179	15	blogy ocition 2
	AG1	2,45	51,430	10/19	948	Baro	ne /	250	8	
	AH1	2,46	62,069	02/19	949	Chat	terjea et al.	250	17	
	Al1	2,46	52,181	02/19	949		selfinger	250	17	
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EXAMINER INITIAL		DOG	CUMENT NUME	BER			COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ1 DE 42 37 692 C1  AK1 EP 0 035 166 A1				03/1994		DE	H04B	1/26	No
					09/1981	John	EP	H04B	1/26	No
	AL1 EP 0 193 899 B1				06/1990	/	EP	G01S	7/52	N/A
	AM1	EP (	380 351 A2		08/1990		EP	нозн	17/04	N/A
					08/1990 EP					
	OTHER (In					nor, Ti	tle, Date, Pertinent Pages, e	etc.)		
	AN	1	Aghvami, Η. ε	et al.,/" ntional	Land Mobile Conference	Satell	tle, Date, Pertinent Pages, e ites Using the Highly Elliptic ( tellite Systems for Mobile Con	Orbits- The UK	T-SAT Mobil	le Payload," on, IEE, pp. 147-
	AN	1	Aghvami, H. e Fourth Interna 153 (October	et al.,/" ntional 177-19,	Land Mobile Conference 1988).	Satell on Sa	ites Using the Highly Elliptic (	Orbits- The UK Inmunications a	and Navigatio	n, IEE, pp. 147-
		1	Aghvami, H. & Fourth Interna 153 (October Akers, N.P. et 49 (January 1	et al., "final 1/7-19, "F al., "F 986).	Land Mobile Conference 1988).  RF Sampling t al., "Dopple S and T-SAT	Satell on Sa Gates er Freq T," Ele	ites Using the Highly Elliptic ( tellite Systems for Mobile Cor	Orbits- The UK nmunications a edings, IEE, Vo	I. 133, Part A	on, IEE, pp. 147-
	AO	1	Aghvami, H. e Fourth Interna 153 (October Akers, N.P. et 49 (January 1 Al-Ahmad, H./ Techniques fo IEE, pp. 4/1-4/	et al.,/" ational 17-19, al., "F 986).  A.M. ear CER 5 (Jar	Land Mobile Conference 1988).  RF Sampling t al., "Dopple S and T-SAT huary 23, 198	Satell on Satell on Satell on Sates	ites Using the Highly Elliptic ( tellite Systems for Mobile Con  a Brief Review," IEE Procee  uency Correction for a Non-G	Orbits- The UK nmunications a edings, IEE, Vo	I. 133, Part A	on, IEE, pp. 147-
	AO AP	1	Aghvami, H. e Fourth Interna 153 (October Akers, N.P. et 49 (January 1) Al-Ahmad, H./ Techniques fo IEE, pp. 4/1-4/ Ali, I. et al., "D 46, No. 3, pp.	et al., " htiopial 17-19, hal., "F 986).  A.M. e. r CER 5 (Jar coppler 309-3	Land Mobile Conference 1988).  RF Sampling t al., "Dopple S and T-SAT huary 23, 198 Characteriz 13 (March 19	Satell on Satell on Satell on Satell on Satell on Frequency (Control of Sates).	ites Using the Highly Elliptic ( tellite Systems for Mobile Con a Brief Review," IEE Proceed uency Correction for a Non-Octronics Division Colloquium for LEO Satellites," IEEE Trans	Orbits- The UK mmunications a edings, IEE, Vo Geostationary Con Low Noise Con assactions on Co	I. 133, Part A	on, IEE, pp. 147-

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INFORMATION DISCLOSURE STATEMENT STATEMEN

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EXAMINER INITIAL			CUMENT MBER	DAT	Ē	NAM	E	(	CLASS	/SUB- CLASS	FILING DATE
	AA2	2,47	2,798	06/19	949	Fred	endall	1	محمر 78	44	
	AB2	2,49	7,859	02/19	950	Boug	htwood et al.	2	250,/	8	RECEIVI
	AC2	2,49	9,279	02/19	950	Pete	son	3	<u></u> 82	41	
	AD2	2,80	2,208	08/19	957	Hobb	s	ب <sup>الن</sup> ام ور	343	176	JUL 1 8 2
	AE2	2,98	5,875	05/19	961	Griso	lale <i>et al.</i>	# 3	343	100	  hnology Cent
	AF2	3,02	3,309	02/19	962	Foul	es	/ 2	250	17	iniology Certi
	AG2	3,06	9,679	12/19	962	Swee	eney <i>et al.</i>	/ 3	343	200	
·	AH2	3,10	4,393	09/19	963	Voge	lman 📝	3	343	200	
	AI2	3,11	4,106 12/1963		963	McM	anus 🔏	3	25	56	
				FOREIGN	I PATI	NT DOCUMENTS			<u>,</u>		
EXAMINER NITIAL		DOCUMENT NUMBER		BER			COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ2	EP 0 380 351 A3 .		02/1991		EP /	}	H03H	17/04	N//	
	AK2	K2 EP 0 411 840 A2		02/1991		EP EP		901R	33/36	. N//	
	AL2	EP (	411 840 A3		07/1991	p p p p p p p p p p p p p p p p p p p	EP ·	G01R		33/36	N//
	AM2	EP (	) 411 840 B1	10/1995		p <sup>e</sup>	EP	(	901R	33/36	N//
* * ***		Ц	OTUE	·D //		T	tle, Date, Pertinent Pa			<u> </u>	
	AO	<u>2</u>	SC-13, No. 6,	pp. 8	96-814 (Dec	ember	nacitor Ladder Filters," / 1978). nological Design Consi IEEE, IEEE, Vol. 71, N	derations 1	or Monolith	nic MOS Swi	
	AD 2 Alouini, M. et al., "Channel of						hannel Characterization and Modeling for Ka-Band Very Small Apertui IEEE, IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).				
	AQ /	2	Andreyev, G./ Propagation ii 43, No. 12, pp	n a Tu	rbulent Atmo	ospher	ase Distortions of Keye e," <i>Telecommunications</i> ).	d Millimete s and Radi	er-Wave Si o Engineer	gnals in the ( ing, Scripta	Case of Fechnica, Vol.
. /	AR	<u>2</u>	Antonetti, A. e Publishing Co	et al., ' mpan	Optoelectro y, Vol. 21, N	nic Sa o. 2, p	npling in the Picosecon p. 211-214 (May 1977).	nd Range,"	Optics Co	mmunication	s, North-Holland
EXAMINER	. —	C	<u> </u>					DA	TE CONSI	DERED	

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INFORMATION DISCOSURE STATEMENT

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	AA3	3,1	18,117	01/1	964	King	et al.	332	22	1
,	AB3	3,2	26,643	12/19	965	McN	air	325	40	1
	AC3	3,2	58,694	06/1	966	Sher	pherd	325	145	
	AD3	3,38	83,598	05/1	968	Sand	ders	325	1667EC	EIVED
	AE3	3,38	84,822	05/19	968	Miya	gi	325	30	
	AF3	3,4	54,718	07/19	969	Perr	eault	178	66 JUL	4 8 2002
	AG3	3,52	23,291	08/19	970	Pierr	et	340 🚜	Teefinology	Cant
	AH3	3,54	48,342	12/19	970	Maxe	<del></del>	332	9	Center 2600
	AI3	3,5	55,428	01/19	971	Perr	eault	325	320	
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EXAMINER INITIAL		DO	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ3	EP	0 423 718 A2		04/1991		EP SAPPORT	H04N	7/01	N/
	AK3	EP	EP 0 423 718 A3		08/1992		EP A	H04N	7/01	N//
	AL3	AL3 EP 0 486 095 A1			05/1992		EP	H03D	3/00	N/A
	AM3	EP	0 486 095 B1		02/1997		EP	H03D	3/00	N//
			OTHE	R (Inc	luding Autl	hor,√	; itle, Date, Pertinent Pages	, etc.)	•	
	AN	3	Austin, J. et a European Mid 1988).	il., "Do crowav	ppler Correct re Conferenc	otion o ce, Mic	f the Telecommunication Pa rowave Exhibitions and Pub	ıyload Oscillatoı olishers Ltd., pp	rs in the UK T . 851-857 (Se	-SAT," <i>18<sup>th</sup></i> ptember 12 - 15,
	AO	3	Auston, D.H., Institute of Ph	"Picos ysics,	second optoo Vol. 26, No.	electro	onic switching and gating in 101-103 (February 1, 1975	silicon," <i>Appliec</i> ).	l Physics Lette	ers, American
	AP	3	Baher, H., "Tr and Systems,	ansfei IEEE	Functions for Circuits and	or Swi Syste	tched-Capacitor and Wave ms Society, Vol. CAS-33, N	Digital Filters," / lo. 11, pp. 1138	EEE Transac -1142 (Novem	tions on Circuits aber 1986).
	AQ	<u>3</u>	Baines, R., "T (May 1995).	he DS	P Bottleneck	k," <i>IEE</i>	E Communications Magazin	ne, IEEE Comm	unications So	ciety, pp. 46-54
	AR	3	Banjo, O.P. ar Electronics Le	nd Vila	ır, E., "Binarı IEE, Vol. 21,	y Erroi , No. 7	r Probabilities on Earth-Spac 7, pp. 296-297 (March 28, 19	ce Links Subjec 985).	t to Scintillatio	on Fading,"
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INITIAL     DOCUMENT   DATE   NAME   CLASS   SUB-CLASS						U.S. P	ATEN	T DOCUMENTS			p post of the second	
AB4   3,621,402					DAT	E	NAN	1E	CL	ASS		FILING DATE
AC4   3,623,160		AA4	3,61	17,892	11/1	971	Haw	ley et al.	325	3	145	
AD4   3,626,417   12/1971   Gilbert   343   203   RECEIVET     AE4   3,622,680   12/1971   Bartelink   324   57 R     AF4   3,662,268   05/1972   Gans of al.   325   59   JUL   1 8,2002     AG4   3,689,841   09/1972   Bello et al.   325   39   JUL   1 8,2002     AH4   3,714,577   01/1973   Hayes   325   49chnology Center 2     AI4   3,717,844   02/1973   Barret et al.   340   5 R     FOREIGN PATENT DOCUMENTS     EXAMINER   DOCUMENT NUMBER   DATE   COUNTRY   CLASS   SUB-CLASS     AK4   EP 0.512.748.A2   11/1992   EP   HO4N   9/64     AK4   EP 0.512.748.B3   07/1993   EP   HO4N   9/64     AK4   EP 0.512.748.B1   11/1998   EP   HO4N   9/64     AM4   EP 0.548.542.A1   06/1993   EP   HO4N   9/64     AM4   EP 0.548.542.A1   06/1993   EP   HO3B   19/14     OTHER (Including Author, Title, Date, Pertinent Pages, etc.)    AN   4   Barillo, O. P. and Milar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IEP   Paths and Impact on Communication Systems," IEEE Transactions on Communications, IEEE Communications, IEEE Communications, IEEE Communications, IEEE Transactions on Antennas and Propagation, IEEE, vol. 38, No. 1, pp. 107-113 (January 1990).    AR   4   Basili, P. et al., "Cose Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antenna and Propagation, IEEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).		AB4	3,62	21,402	11/1	971	Gard	dner	<sub>r</sub> . ź28	3	37	
AE4   3,629,696   12/1971   Bartelink   324   57 R   12/1971   AF4   3,662,268   05/1972   Gans et al.   325   55   JUL   1.8 2002   AC4   3,689,841   09/1972   Belio et al.   325   39   JUL   1.8 2002   AC4   3,714,577   01/1973   Hayes   325   46chnology Center 2   AC4   3,714,577   01/1973   Hayes   325   46chnology Center 2   AC4   3,717,844   02/1973   Barret et al.   340   5 R		AC4	3,62	23,160	11/1	971	Gile	s et al.	<sub>s</sub> / 340	)	347 DA	
AF4   3,662,288   05/1972   Gans et al.   325   325   330   326   330   340		AD4	3,62	26,417	12/1	971	Gilb	ert	/ 343	3	203 DE	
AG4   3,689,841   09/1972   Belio et al.   325   39   325   39   325   39   325   39   325   3		AE4	3,62	29,696	12/1	971	Bart	elink /	324	ļ	57 R	PEIVED
AG3	<u> </u>	AF4	3,66	52,268	05/1	972	Gan	s et al.	325	5	56	1 8 2002
AI4   3,717,844   02/1973   Barret et al.   340   5 R		AG4	3,68	39,841	09/1	972	Bello	o et al.	325	j	39	
AI4   3,717,844   02/1973   Barret et al.   340   5 R		AH4	3,71	14,577	01/1	973	Hay	es 🦯	325	5	<b>Technolog</b>	y Center 260
EXAMINER INITIAL  DOCUMENT NUMBER  DATE  COUNTRY  CLASS  SUB-CLASS  TRANSLAT  CLASS  SUB-CLASS  TRANSLAT  TRANSLAT  TRANSLAT  DOCUMENT NUMBER  DATE  COUNTRY  CLASS  SUB-CLASS  TRANSLAT  TRANSLAT  TRANSLAT  DOCUMENT NUMBER  DATE  COUNTRY  DOCUMENT NUMBER  DATE  COUNTRY  DOCUMENT NUMBER  TRANSLAT  TRANSLAT  TRANSLAT  TRANSLAT  TRANSLAT  DOCUMENT NUMBER  DATE  COUNTRY  DOCUMENT NUMBER  TRANSLAT  TRANSLAT  TRANSLAT  TRANSLAT  TRANSLAT  TRANSLAT  DATE  DATE  DATE  DOCUMENT NUMBER  DATE  COUNTRY  DOCUMENT NUMBER  TRANSLAT  TRA		Al4	3,71	17,844	02/19	973	Barr	et et al.	340	)		
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AK4 EP 0 512 748 A3 07/1993 EP H04N 9/64  AL4 EP 0 512 748 B1 11/1998 EP H04N 9/64  AM4 EP 0 548 542 A1 06/1993 EP H03B 19/14  OTHER (Including Author, Title, Date, Pertinent Pages, etc.)  Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IE pp. 277-280 (March 30 - April 2, 1987).  AO 4 Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Sp. Path's and Impact on Communication Systems," IEEE Transactions on Communications, IEEE Communication Systems, "IEEE Transactions on Communications, IEEE Communications, Vol. COM-34, No. 8, pp. 774-780 (August 1986).  AP 4 Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths, Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).  AQ 4 Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antenna and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).  AR 4 Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).					BER	DATE		COUNTRY	CLASS			TRANSLATION
AL4 EP 0 512 748 B1 11/1998 EP H04N 9/64  AM4 EP 0 548 542 A1 06/1993 EP H03B 19/14  OTHER (Including Author, Title, Date, Pertinent Pages, etc.)  Barjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," [Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IE pp. 277-280 (March 30 - April 2, 1987).  Barjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Sp. Path's and Impact on Communication Systems," IEEE Transactions on Communications, IEEE Communication Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).  AP  Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).  AQ  Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antenna and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).  AR  Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).		AJ4	AK4 EP 0 512 748 A3			11/1992		ĔΡ			9/64	N/A
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AN 4 Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IE pp. 277-280 (March 30 - April 2, 1987).  AO 4 Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Spreaths and Impact on Communication Systems," <i>IEEE Transactions on Communications</i> , IEEE Communications, Vol. COM-34, No. 8, pp. 774-780 (August 1986).  AP 4 Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85</i> ), IEE, pp. 77-82 (April 16-19, 1985).  AQ 4 Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," <i>IEEE Transactions on Antenna and Propagation</i> , IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).  AR 4 Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).		AL4				11/1998	<i>y</i>	EP.	H04	1N	9/64	N/A
Banjo, O.P. and Milar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IE pp. 277-280 (March 30 - April 2, 1987).  Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Sprayfis and Impact on Communication Systems," IEEE Transactions on Communications, IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).  Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths, Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).  Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antenna and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).  Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).		AM4	EP (	0 548 542 A1		06/1993		EP	H03B		19/14	N/A
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Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).  Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antenna and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).  Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).		AO	4	Path's and Imp	pact o	n Communic	ation	Systems," IEEE Transacti	ude Scintill	ations o	n Low-Elevat ations, IEEE (	ion Earth-Space Communications
AR		AP	4	Banjo, O.P. el Fourth Interna	t al., " ational	al., "Tropospheric Amplitude Spectra Due to Absor tional Conference on Antennas and Propagation (IC			orption and (ICAP 85),	Scatter	ing in Earth-S 77-82 (April	Space Paths," 16-19, 1985).
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	<del></del>	AR 4 Basili, P. et al., "Observation of Letters, IEE, Vol. 24, No. 17, pp						C <sup>2</sup> and Turbulent Path Len -1116 (August 18, 1988).	gth on OTS	S Space	-Earth Link,"	Electronics
DATE CONSIDERED	EXAMINER			<u> </u>		<u></u>			DATE			

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PSO-1449

INFORMATION DISCASSURE STATEMENT

ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

APPLICANT

Sorrells et al.

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	AA5	3,735,048	(	05/1973	Tomsa et al.	179	15 BM	
	AB5	3,806,811	(	04/1974	Thompson	325	146	
	AC5	3,868,601		02/1975	MacAfee	332	45	
	AD5	3,949,300	) (	04/1976	Sadler #	325	31	
	AE5	3,967,202	. (	06/1976	Batz	325	31 DE	CEIVEN
	AF5	3,980,945	. (	09/1976	Bickford	325	30	PEIVED
	AG5	3,987,280	, ,	10/1976	Bauer /	235	150.53	1 8 2002
·	AH5	3,991,277		11/1976	Hirata	179	15 FD	1
· •	AI5	4,003,002		01/1977	Snijders et al.	332	<b>Technolo</b>	y Center 260
		<u></u>		FOREIGN	N PATENT DOCUMENTS			22
EXAMINER NITIAL		DOCUME	NT NUMBE	ER DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ5			01/1995	/EP	G01S	13/75	N/
	AK5	AK5 EP 0 632 288 A3		07/1996	# EP	G01S .	13/75	N/
	AL5 EP 0 696 854 A1		02/1996	EP .	H04B	1/26	N/	
	AM5			07/1997	EP	H04B	7/02	N,
	I AN	ب l Blak	ey, J.R. <i>et</i> .		nt of Atmospheric Millimetre	<ul> <li>Wave Phase Scintil</li> </ul>	lations in an Ab	sorption
			ion," <i>Electro</i>	onigs Letters, IEI	E, Vol. 21, No. 11, pp. 486-4	87 (May 23, 1985).		•
	AO	Reg  Burg  com	gueño, A. ei municátion	al., "Influence o	E, Vol. 21, No. 11, pp. 486-4  of rain gauge integration time	87 (May 23, 1985). on the rain rate stat	istics used in n	nicrowave 522-527
		S Reg  Burg  com (Sep	gueño, A. ei munication: otember/Oc jueño, A. ei lication to M	t al., "Influence o s," annales des t tober 1988).	f rain gauge integration time	87 (May 23, 1985). on the rain rate stattional Union of Radio	istics used in no Science, pp. 5	ate with
	AO	<ul> <li>Reg</li> <li>Burg com (Sep</li> <li>Appl</li> <li>Burg 5</li> <li>Burg Com</li> </ul>	gueño, A. et munication: otember/Oc gueño, A. et ication to M Part 2: Prop gueño, A. et munication	t al., "Influence o s," annales des t tober 1988). t al., "Long-Term licrowave Comm pagation, IEE, pp	of rain gauge integration time the telecommunications, International Joint Statistical Analysis of nunications, "Fifth Internation 198-201 (March 30 - April 2014).  Statistics of Precipitation Rational Conference on Antennational Conference on Conference	e on the rain rate state tional Union of Radic Duration and Intensinal Conference on Aug., 1987).	istics used in no Science, pp. 5 ty of Rainfall Rentennas and Pr	ate with opagation (ICAI
	AO AP	Burgo September	gueño, A. et munication: otember/Occupação, A. et ication to Meart 2: Properties de la munication pp. 297-30 queño, A. et esactions or	t al., "Influence of s," annales des tober 1988).  t al., "Long-Term incrowave Commonagation, IEE, pp. tal., "Long Term s," Sixth Internation (April 4-7, 198).	of rain gauge integration time the telecommunications, International Joint Statistical Analysis of nunications, "Fifth Internation 198-201 (March 30 - April 2014).  Statistics of Precipitation Rational Conference on Antennational Conference on Conference	e on the rain rate stational Union of Radio  Duration and Intensinal Conference on Air 2, 1987).  ate Return Periods in the sational Propagation	istics used in no Science, pp. 5 ty of Rainfall Retennas and Protection (ICAP 89) Part to Fade Dynan	ate with opagation (ICA)  f Microwave 2: Propagation

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ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

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Sorrells et al

FILING DATE April 14, 2000

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EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E		CLASS	SUB- CLASS	FILING DATE
· · · · · · · · · · · · · · · · · · ·	AA6	4,01	3,966	03/19	977	Cam	pbell		325 🎤	363	
	AB6	4,01	9,140	04/19	977	Swe	dlow		322	65	
	AC6	4,03	5,732	07/19	977	Lohr	mann		,325	446	
	AD6	4,04	7,121	09/19	977	Cam	pbell		<i>№</i> 331	76	
	AE6	4,06	6,841	01/19	978	Your	g	pp	178	66 R	
	AF6	4,06	6,919	01/19	978	Hunt	ington		307	383EUt	IVED
	AG6	4,08	1,748	03/19	978	Batz		1	325	56	8 2002
	AH6	4,13	0,765	12/19	978	Arak	elian <i>et al.</i>	<u>/</u>	307	220 N~	
	Al6	4,13	0,806	12/19	978	Van	Gerwen <i>et al.</i>		325	echinology	Center 2600
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EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS	SUB- CLASS	TRANSLATION
	AJ6 EP 0 785 635 A1				07/1997		EP /		H04B	1/713	No
	AK6	AK6 EP 0 795 978 A2		09/1997		EP		H04L	5/06	N/A	
	AL6	EP 0	EP 0 837 565 A1		04/1998		EP	H		1/69	N/A
	AM6	EP 0	862 274 A1		09/1998	/	ÉP		нозм	1/06	N/A
		<u> </u>	OTHE	R (Inc	cluding Aut	hor. T	tle, Date, Pertinent	Pages, e	tc.)		
	AN	6	No. 12, pp. 12	238-12	lighly Linear	, 1998 	or satellite slant path ).  z CMOS Downconve ciety, pp. 210-213 (S	rsion Mixe	er," <i>European</i>	Solid State C	
	AP	<u>6</u>	Copy of Declarelated subject			J. Bulti	man filed in patent ap	oplication	Ser. No. 09/17	76,022, which	n is directed to
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INFORMATION DESCLOSURE OF TEMENT

ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

Sorrells et al. FILING DATE

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

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EXAMINER INITIAL			CUMENT MBER	DAT		NAM		CLASS	SÜB- CLASS	FILING DATE
	AA9	4,39	2,255	07/1	983	Del C	Siudice	455	328	
	AB9	4,43	30,629	02/1	984	Betzl	et al. RECEIVED	333 /	165	
····	AC9	4,44	16,438	05/19	984		g et al.	328	127	
	AD9	4,45	6,990	06/1	984	Fishe	er et al. 1111 1 8 2002	370	119	
	AE9	4,47	2,785	09/1	984	Kasu	ga	∕364	718	
	AF9	4,47	9,226	10/19	984	Prab	nu <b>Jechnology</b> Center 2600	375	1	
	AG9	4,48	31,490	11/19	984	Hunti	ey ۾	332	41	
	AH9	4,48	1,642	11/19	984	Hans	on p	375	9	
	AI9	4,48	35,488	11/19	984	Houd	art 📌	455	327	
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EXAMINER NITIAL		DOG	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ9	wo	94/05087 A1		03/1994	·	РСТ	H03M	1/00	N
	AK9 WO 96/02977 A1			02/1996		РСТ	H04B	1/26	N.	
	AL9 WO 96/08078 A1			03/1996		PCf /	H03D	3/00	N	
	AM9	wo	96/39750 A1		12/1996	_/	PCT	H04B	1/26	N.
			OTHE	R (In	cluding Auti	họr, Ti	tle, Date, Pertinent Pages, et	c.)		
	AN	9					sion FET-Less Sample-and-Ho cuits, IEEE, Vol. SC-13, No. 6,			
	AO	<u>9</u>	Faulkner, N.D Oscillators," / (March 1983)	and	Vilar, E., "Su ransactions	ubharm on Ins	nonic Sampling for the Measure trumentation and Measuremen	ement of Shor t, IEEE, Vol. I	t Term Stab M-32, No. 1	ility of Microwav , pp. 208-213
	АР	9	Faulkner, N.D Microwave Os M-10 and M-1	scillate	ors," <i>CPEM</i> 8	nonic S 82 Dige	Sampling for the Accurate Measest: Conference on Precision E	surement of F lectromagnet	requency St ic Measuren	ability of nents, IEEE, pp.
	AQ /	9	Faulkner, N.D Techniques," (1984).	. and CPEN	Vilar, E., "Tii 184 Digest (	me Doi Confere	main Analysis of Frequency Sta ence on Precision Electromagn	ability Using N	Non-Zero De ments, IEEE	ad-Time Counte , pp. 81-82
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Page 10 or 56 APPLICATION NO. ATTY. DOCKET NO. 09/550,642 1744.0920001 APPLICANT Sorrells et al. TAT<u>EMENT</u> INFORMATION GROUP FILING DATE April 14, 2000 2634 **U.S. PATENT DOCUMENTS EXAMINER** SUÉ-**DOCUMENT** DATE NAME **CLASS FILING DATE** INITIAL LASS **NUMBER** 31 R 332 **AA10** 4,504,803 03/1985 Lee et al. AB10 4,517,519 05/1985 Mukaiyama 329 126 329 Ogawa 145 AC10 4,517,520 05/1985 173 333 AD10 05/1985 4,518,935 van Roermund *1*375 Vance et al. 375 Dixon, Jr. et al. 255 88 06/1985 AE10 4,521,892 327 AF10 4,563,773 07/1986 329 50 03/1986 AG10 4,577,157 Reed 94 04/1986 Vance 375 AH10 4,583,239 4,591,736 307 267 AI10 05/1986 Hirao et al. FOREIGN PATENT DOCUMENTS **EXAMINER** SUB-COUNTRY **CLASS** TRANSLATION INITIAL DOCUMENT NUMBER DATE **CLASS** AJ10 H03K 7/00 N/A **PCT** WO 97/38490 A1 10/1997 PCT AK10 WO 98/00953 A1 01/1998 H04L 27/26 N/A 1/00 N/A AL10 WO 98/24201 A1 06/1998 **PCT** H04H 01/1984 H<sub>0</sub>3D 3/04 N/A AM10 EP 0 099 265 A1 ĔΡ OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," IEEE Journal of Solid-State Circuits, ΑN 10 IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984). Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," IEE Proceedings-H: AO 10 Microwayes, Antennas and Propagation, IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988). Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," IEE Proceedings, IEE, ΑP 10 Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987). Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," Microwaves & RF, Hayden AQ' 10 Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).

Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," Radio AR 10 Science, American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

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	AA11	4,60	2,220	07/19	986	Kurih	ara				331	19	
	AB11	4,60	3,300	07/19	986	Welle	es, Il et a	1.			329	¢50	
	AC11	4,61	2,464	09/19	986	Ishik	awa et ai				307	496	
	AD11	4,61	2,518	09/19	986	Gans	et al.				332	21	
	AE11	4,61	6,191	10/19	986	Gala	ni <i>et al</i> .				331	4	
	AF11	4,62	1,217	11/19	986	Saxe	et al.				315	1	
	AG11	4,62	8,517	12/19	986	Schw	arz et al				<i>∦</i> 375	40	
	AH11	4,63	4,998	01/19	987	Craw	ford			g	331	1 A	
	Al11	4,64	8,021	03/19	987	Alber	krack			, Again	363	157	
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****	AJ11	EP 0	560 228 A1		09/1993		EP	F	BEC	EIV	ED03D	7/12	N/A
	AK11	FR 2	245 130		04/1975		FR	JUL 1 8 2			- P	5/13	Yes (See AP50)
·	AL11	DE 3	85 41 031 A1		05/1986		DE /	rech	ology	Cente	r. <b>2606</b> ⊡	3/00	Yes (See AR50)
	AM11	EP 0	732 803 A1		09/1996		EP/				H03D	3/00	Yes (See AN51)
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	AN	<u>11</u>	941-966 (Aug	ust 19	83).	a Tech	niques S				ngs of the IEEE		71, No. 8, pp. Publishing, pp.
	АР	11	Grove, W.M., Microwave Th	pling for Osc and Techniqu	cillosco ues, IE	pes and EE, pp. 6	Other 529-63	RF Sy 35 (Dec	stems:	Dc through X-E 1966).	Band," <i>IEEE 1</i>	ransactions on	
	AQ	11	Haddon, J. et al., "Measurer Propagation, IEE, pp. 113-1				crowave	Scintil	lations	on a Sa	atellite Down-Li	nk at X-Band	" Antennas and
	AR	<u>11</u>	r, E., "Scatte nce of Anter 57 (May 198	nna Ap	duced M erture," /	icrowa EEE 1	ave Sc Transa	intillatio ctions o	ns from Clear A n Antennas and	Air and Rain o	on Earth Space o, IEEE, Vol. AP-		
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	AA12	4,651,034	03/1	987	Sato		307	556 <sup>465</sup>	
<u> </u>	AB12	4,675,882	06/1	987	Lillie	et al.	375	,8Ő	
	AC12	4,688,253	08/1	987	Gum	ım	381	7	
	AD12	4,716,376	12/1	987	Daud	delin	329 عرض	107	
	AE12	4,716,388	12/1	987	Jaco	bs .	33,3"	173	
	AF12	4,718,113	01/1	988	Roth	er et al.	<b>4</b> 55	209	
-1. <u>- 1/</u>	AG12	4,726,041	02/1	988	Proh	aska et al.	375	91	
·	AH12	4,733,403	03/1	988	Simo	one A	375	103	
	Al12	4,734,591	03/1	988	Ichits	subo	307	219.1	
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	AJ12	DE 197 35 798 C1		07/1998		DECEMBE	H04L	27/00	(See AP
·	AK12			09/1998	PCT RECEIVE			7/08	١
	AL12 EP 0 529 836 A1  AM12 EP 0 795 955 A2&A3		03/1993		EP JUL 1 8 2000		7/089	1	
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	AO .	Herben, M.H. Electronics L.  Hewitt, A. et for Telecomr	. et al., .A.J., "Arnunical	"2-4 Ghz Mi Amplitude ar IEE, Vol. 18 In 18 Ghz Wich In Autoregress EE Transacti	nd Pha , No. 7	Sampler," <i>Electronics Letter</i> ase Scintillation Measuremen 7, pp. 287-289 (April 1, 1982)	ts on 8-2 km Li	ne-Of-Sight P Conference or mber 27-28,	Path at 30 Ghz, In Measuremen 1985)  from Field
	AO :	Herben, M.H. Electronics L.  Hewitt, A. et fop Telecomr  Hewitt, A. et Measuremer 1136-1143 (I.	. et al., "Ar nunical al., "Ar Noveml	"2-4 Ghz MI "Amplitude ar IEE, Vol. 18 "Autoregress EE Transacti ber 1989).  E., "Selectiv niques," IEE	nd Pha No. 7 deband ssion S sive A	r Sampler," <i>Electronics Letter</i> see Scintillation Measuremen 7, pp. 287-289 (April 1, 1982) d LOS Multipath Experiment, Systems - MTTS 85, IEE, pp.	ts on 8-2 km Li International Control (Nove of Multipath Ray	Conference or mber 27-28, Parameters ociety, Vol. 3	rath at 30 Ghz,  n Measuremen 1985)  from Field 7, No. 11, pp.
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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS	SUB-	FILING DATE
	AA13	4,73	7,969	04/1	988	Stee	et al.		375	67	
	AB13	4,74	3,858	05/1	988	Ever	ard		نو 330	10	
	AC13	4,74	5,463	05/1	988	Lu			358	23	
	AD13	4,75	1,468	06/1	988	Agos	ton		328	133	
	AE13	4,75	7,538	07/1	988	Zink			381	7	
	AF13	4,76	8,187	08/1	988	Mars	hall		370	69.1	
	AG13	4,76	9,612	09/1	988	Tama	akoshi <i>et al</i> .	A THE STATE OF	328	167	
	AH13	4,78	5,463	11/1	988	Janc	et al.	R. Salakar	375	1	
	Al13	4,79	1,584	12/1	988	Greiv	enkamp, Jr.	de de la companya de	364	525	
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	AK13	wo	91/18445 A1		11/1991		PCT RECEN	0000	H03D	7/18	N/A
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	AO	<u>13</u>	Howard, I.M. Detection," The Australia, pp.	hể Ins	titution of En	aineer	emodulating High Frequ s <i>Australia Vibration an</i> 20, 1990).	uency Re ad Noise	esonance Sig Conference,	gnals for Bear Institution of	ring Fault Engineers,
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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

Sorrells et al.

FILING DATE April 14, 2000

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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

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	AB16	4,90	2,979	02/19	990	Puck	ette, IV		329	3 <i>j</i> *	343	
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	AD16	4,91	0,752	03/19	990	Yest	er, Jr. <i>et al</i> .		37	5	75	
	AE16	4,91	4,405	04/19	990	Wells	3		<i>,</i> ⁄33	1	25	
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	АО	<u>16</u>	Lau, W.H. <i>et</i> No. 20, pp. 1	<i>al.</i> , "In 059-10	nproved Pro 060 (Septem	ny Algo ber 24	orithm to Identify M , 1987).	lultipath Co	mpone	ents," <i>Ele</i>	ectronics Le	tters, IEE, Vol. 23,
	АР	<u>16</u>	Lesage, P. a Transactions 28, No. 1, pp	on Ins	strumentation	n and l	Dead-Time on the Measurement, IEE	Estimation E Instrumer	of the	Two-Sar and Mea	mple Variand asurement S	ce," <i>IEEE</i> Society, Vol. IM-
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	ÅR	<u>16</u>	Linnenbrink, Science, IEE	T.E. et E Nucl	al., "A One lear and Plas	Gigasa sma Se	ample Per Second ciences Society, V	Transient I ol. NS-26, I	Record	ler," <i>IEE</i> pp. 4443	E Transactio -4449 (Augi	ons on Nuclear ust 1979).
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	AC18	5,01	4,304	05/1	991	Nico	llini et al.	379 مختبر	399	
	AD18	5,01	5,963	05/19	991	Sutto	on	329	361	
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	AF18	5,02	.0,149	05/19	991	Hem	mie g	455	325	
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	AL18	JP 6	3-153691		06/1988		JP JUL 1 8 2002	G06K	17/00	N
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	AO	<u>18</u>	Martin, K. and S	l Sedr System	a, A.S., "Swi os, IEEE Circ	itched- cuits a	Capacitor Building Blocks for nd Systems Society, Vol. CAS	Adaptive Systo 3-28, No. 6, pp	ems," <i>IEEE</i> . 576-584 (J	Transactions on une 1981).
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	AR	<u>18</u>	McQueen, J.C Vol. XXIV, No	G., "Th . 296,	e Monitoring pp. 436-441	of Hig (Octo	gh-Speed Waveforms," <i>Electro</i> ber 1952).	onic Engineerii	ng, Morgan I	Brothers Limited,
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	AB19	5,09	91,921	02/19	992	Mina	ımi	375	88	
	AC19	5,09	95,533	03/19	992	Lope	er et al.	455 <sup>3</sup>	245	
	AD19	5,09	95,536	03/19	992	Lope	er	<b>4</b> 555	324	
	AE19	5,11	11,152	05/19	992	Mak	no	<i></i> 329	300	
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	AN	<u>19</u>	Vol. SC-7, No	. 1, př	5. 50-54 (Feb	tillation	n Cycles in a Sirio Satellite-Ea			
	AP	19 /	/Morris, D., "Ra cosmic signal (II) 1988).	adio-h sourc	e," Astronon	ny and	or measurement of the 30-m m I Astrophysics, Springer-Verla	illimeter radio g, Vol. 203, No	telescope a b. 2, pp. 399	: 22 Ghz with a -406 (September
	AQ	<u>19</u>	Moulsley, T.J.	et al., and Ra	, "The efficie adio Enginee	nt acq	uisition and processing of pro RE, Vol. 55, No. 3, pp. 97-103	pagation statis (March 1985).	tics," <i>Journa</i>	al of the Institution
	AR	<u>19</u>	Ndzi, D. et al., Colloquium on (December 16	Radi	o Communic	stical (	Characterization of an Over-th at Microwave and Millimetre	e-Sea Experin Wave Frequen	nental Trans cies, IEE, p	horizon Link," <i>IE</i> o. 1/1-1/6
EXAMINER	11		<u> </u>	$\widehat{\mathcal{O}}$				DATE CONS	DERED 4	<del></del>

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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

Sorrells et al

FILING DATE April 14, 2000

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EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	1E	CLASS	SUB- @LASS	FILING DATE
	AA20	5,13	6,267	08/19	992	Cabo	ot	333	174	
	AB20	1	0,705	08/1	992	Kosı		455	318	
	AC20	<del></del>	0,124	09/19	992	1	re et al.	342	68	
· · · · · · · · · · · · · · · · · · ·	AD20		1,661	09/19		•	well et al.	328	14	
	AE20	+	9,710	10/19		Cuso	<del></del>	455	304	
	AF20		0,414	12/19		Silvia		375	59	
	AG20	1	2,070	12/1			wa et al.	329	304	
	AH20	1	1,459	03/19	· · · · · · · · · · · · · · · · · · ·	<del> </del>	mpson et al.	359	133	
	Al20	<del></del>	4,642	04/19		<del>†                                      </del>	gar et al.	331	135	†
	171120	10,20	1,012	0			ENT DOCUMENTS			<u> </u>
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ20						BECEIVED			Ye N
	AK20						and the same of th			Ye
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	AL20					A.	chnology Center 2600			Ye N
	AM20				, per	<i>!</i>	Chudida Center 2000			Ye
	7.114720	1			ge <sup>d</sup>			<u> </u>		Ň
	AN	<u>20</u>	Ndzi, D. et al. Link," IEE Co. Radio, IEE, p	lloqujù	im on Propa	gation	f Signal Levels and Doppler Sp Characteristics and Related S , 1997).	read on an O ystem Technic	ver-The-Sea ques for Bey	Transhorizon and Line-of-Sight
	AO	<u>20</u> .	Link," IEE Co. Radio, IEE, p	lloquiù p. 9/1-	im on Propa -9/6 (Novemb	gation ber 24	Characteristics and Related Sy	ystem Technic	ques for Bey	ond Line-of-Sight
		<u> </u>	"New zero IF (September 1	lloquiù p. 9/1- chipse 995).	im on Propag 9/6 (Novemb et from Philip rst monolithic	gation ber 24 os," <i>Ele</i>	Characteristics and Related Sy, 1997).	ews & Media,	Vol. 67, No.	825, p. 10
	AO	<u>20</u>	"New zero IF (September 1	chipse 995).	im on Propag 9/6 (Novemb et from Philip rst monolithing, Vol. 27, N	gation ber 24 os," <i>Ele</i> c PCM o. 8, p	Characteristics and Related Sy, 1997).  ectronic Engineering, United Ne	ews & Media,	Vol. 67, No.	825, p. 10
	AO AP	<u>20</u>	Link," IEE Co. Radio, IEE, pp. "New zero IF (September 1  Ohara, H. et a Publishing Co.  Oppenheim, A	chipse 995).	im on Propag- -9/6 (November et from Philip rst monolithic y, Vol. 27, November t al., Signals	gation ber 24  os," Ele  c PCM o. 8, p  and S	Characteristics and Related Sy, 1997).  ectronic Engineering, United New York of telecomm systems, 130-135 (April 12, 1979).	ews & Media, stems," Elect	Vol. 67, No.	825, p. 10
<b>EXAMINER</b>	AO AP	20 20 20	Link," IEE Co. Radio, IEE, pp. "New zero IF (September 1  Ohara, H. et a Publishing Co.  Oppenheim, A	chipse 995).	im on Propag- -9/6 (November et from Philip rst monolithic y, Vol. 27, November t al., Signals	gation ber 24  os," Ele  c PCM o. 8, p  and S	Characteristics and Related Sy, 1997).  Dectronic Engineering, United New York, 1997	ews & Media, stems," Elect	Vol. 67, No. ronic Design	825, p. 10
EXAMINER	AO AP	20 20 20	Link," IEE Co. Radio, IEE, pp. "New zero IF (September 1  Ohara, H. et a Publishing Co.  Oppenheim, A	chipse 995).	im on Propag- -9/6 (November et from Philip rst monolithic y, Vol. 27, November t al., Signals	gation ber 24  os," Ele  c PCM o. 8, p  and S	Characteristics and Related Sy, 1997).  Dectronic Engineering, United New York, 1997	ews & Media, stems," Elect 531 and 561- on Measurements).	Vol. 67, No. ronic Design	825, p. 10 i, Hayden
EXAMINER: In	AO AP AQ itial if refe	20 20 20	Unit," IEE Co. Radio, IEE, por Padio, IEE, por Padio, IEE, por Padio, IEE, por Padio (September 1)  Ohara, H. et a Publishing Co. Oppenheim, A Ortgies, G., "E Electronics Lectronics Lectr	chipse 995).  chipse 995).  al., "Firmpan  A.V. et	im on Propag- 9/6 (November from Philips rest monolithics, Vol. 27, November al., Signals mental Paragram IEE, Vol. 21	gation ber 24  os," Ele  c PCM o. 8, p  and S  meters , No. 1	Characteristics and Related Sy, 1997).  Dectronic Engineering, United New York, 1997	ews & Media, stems," <i>Elect</i> 531 and 561- on Measurements).	Vol. 67, No.  ronic Design  562 (1983).  ents on Sate	825, p. 10 i, Hayden

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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

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					U.S. P	ATEN	T DOCUMENTS				
EXAMINER INITIAL			CUMENT I	DAT	E	NAM	IE .	CLA	ss	SUB- CLASS	FILING DATE
	AA21	5,2	12,827	05/1	993	Mes	zko <i>et al.</i>	455	للتحول	219	
	AB21	5,2	14,787	05/19	993	Kark	ota, Jr.	455/	g <sup>e</sup>	3.2	
	AC21	5,2	20,583	06/19	993	Solo	mon	3/15		82	
	AD21	5,2	20,680	06/19	993	Lee		455		102	
	AE21	5,22	22,144 (	06/19	993	Whik	sehart x	381		15	
	AF21	5,23	30,097	07/19	993	Curri	e et al.	455		226.1	·
	AG21	5,23	39,686	08/19	993	Dow	ney 🎤	455		78	
	AH21	5,24	41,561	08/19	993	Barn	ard /	375		1	
	Al21	5,24	49,203	9/19	993	Lope	r /.	375		97	
					FOREIGN	PATE	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUMBE	ER	DATE		COUNTRY	CLA	ss	SUB- CLASS	TRANSLATION
	AJ21		•				J. S. Carlotte				Yes No
	AK21						/RECEIVED				Yes No
	AL21	-				jakarak	JUL 1 8 2002				Yes No
	AM21				ار	, John Committee of the	Technology Center 2600				Yes No
,			OTHER	(inc	luding Auth	or. Ti	tle, Date, Pertinent Pages, etc.	.)			<u> </u>
	AN	<u>21</u> <u>21</u>	Peeters, G. et/a	hniq	jues, IEEE, V	ol. 45	tical Models for Clear-Air Scintillof Satellite Communications, Joh	97). 	Predic	tion Using C	Olympus Satellite
	АР	<u>21</u>	Perrey, A.G. and Dept. of Comme	d Sc erce,	hoenwetter, I pp. 1-14 (Ma	H.K., <i>I</i> ay 198	NBS Technical Note 1121: A Scl 30).	hottky	<sup>,</sup> Diode	Bridge San	npling Gate, U.S.
	AQ	21	Poulton, K. <i>et al</i> pp. 962-969 (De	., "A cem	. 1-Ghz 6-bit / nber 1987).	ADC S	System," <i>IEEE Journal of Solid-S</i>	State (	Circuits	s, IEEE, Vol.	SC-22, No. 6,
	AR	<u>21</u>	Press Release, (April 6, 1994).	"Par	kervision, Inc	c. Ann	ounces Fiscal 1993 Results," Lip	opert/	Heilsho	orn and Asso	ociates, 2 Pages
EXAMINER		00	<u> </u>				DA	ATE C	ONS/I	ERED _	

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INFORMATION DISCLOSURE SCENARIONT

ATTY. DOCKET NO. APPLICATION NO. 1744.0920001 09/550,642

APPLICANT Sorrells et al.

FILING DATE GROUP 2634

EXAMINER NITIAL					U.S. P	ATEN	T DOCUMENTS			
		D00								
			UMENT IBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA22	5,25	1,218	10/19	993	Stone	e et al.	370	120	p
	AB22	5,25	1,232	10/19	993	Nona	mi	375	5	<u> </u>
	AC22	5,26	0,970	11/19	993	Henr	y et al.	375	10 🖋	
	AD22	5,26	3,194	11/19	993	Raga	n	455	316	
	AE22	5,26	3,196	11/19	993	Jasp	er	455	324	
	AF22	5,26	7,023	11/19	993	Kawa	saki	358	<i>∮</i> 23	
	AG22	5,27	8,826	01/19	994	Murp	hy et al.	370	76	
_	AH22	5,28	2,023	01/19	994	Scar	oa	358	36	
	Al22	5,28	7,516	02/19	994	Scha	ub	37,6	88	L
	· ·				FOREIGN	I PATE	NT DOCUMENTS		_	
EXAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ22									Yes . No
	AK22					RECEIVED				Yes No
	AL22					JUL 1 8 2002				Yes No
	AM22			Technology			hnology Center 2600			Yes No
		-	OTHE	R (Inc	(Including Author, Title, Date, Pertinent Page			etc.)	-	
	AN	<u>22</u>	Press Releas Sales Manag	e, "Pa er," Lip	rkervision, Ir opert/Heilsho	nc. Anr	nounces the Appointment of I Associates, 1 Page (April 7	Michael Bake 7, 1994).	r to the New P	osition of National
	AO	<u>22</u>	Press Releas Associates, 2				aman Well-Received By Dis	tance Learnin	g Market," Lipp	pert/Heilshorn and
	АР	<u>22</u>	Press Releas Associatés, 2	e, "Pa Page:	rkervision, Ir s (April 26, 1	nc. Anr 994).	ounces First Quarter Finan	cial Results," L	.ippert/Heilsho	rn and
	AQ	22 /	Press Releas Lippert/Heilsh	e, "Pa orn ar	rkervision, Ir nd Associate	nc. Anr s, 1 Pa	nounces The Retirement of Nage (May 11, 1994).	Villiam H. Flet	cher, Chief Fin	nancial Officer,"
	AR	<u>22</u>	Press Releas Lippert/Heilsh	e, "Pa orn ar	rkervision, In nd Associate	ic. Ann s, 3 Pa	ounces New Cameraman S ages (June 9, 1994).	ystem II™ At	Infocomm Trac	de Show,"
XAMINER	<u> </u>		CO	1		_		DATE CON	SIDERED	03 /

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

JUL 1 6 2002

Sorrells et al

FILING DATE · April 14, 2000

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EXAMINER INITIAL			CUMENT MBER	DATI	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA23	5,29	3,398	03/19	994	Ham	ao et al.	375	1	
	AB23	5,30	3,417	04/19	994	Laws		455	314	
	AC23	_	7,517	04/19	994	Rich	,	455	306	
	AD23		5,583	05/19	994	Murp	hy <i>et al.</i>	370	18	
	AE23	_	1,852	06/19	994	Seor	g	455	182.1	
	AF23	5,32	5,204	06/19	994	Scar	oa ,	348	607	
	AG23	5,33	7,014	08/19	994	Najle	et al.	324	613	
	AH23	5,33	9,054	08/19	994	Tagu	chi	332	100	
	Al23	5,33	9,459	08/19	994	Schil	tz et al.	455	333	
					FOREIGN	PAT	ENT DOCUMENTS			
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS:	SUB- CLASS	TRANSLATIO
	AJ23					···	RECEIVED			Ye N
	AK23									Ye N
	AL23						JUL 1 8 2002 Technology Center 2	Į.		Ye N
	AM23									Ye N
			OTHE	R (Inc	cluding Aut	hor. T	tle, Date, Pertinent Pages,	etc.)		
	AO	23 23 23	Associates, 2 Press Releas	Page	s (June 17,	1994). 	nounces Appointments to its nounces Second Quarter and ages (August 9, 1994).			
	АР	<u>23</u>					nounces Third Quarter and N ages (October 28, 1994).	ine Months Fin	ancial Resul	lts,"
	AQ	<u>23</u> /	Press Releas Lippert/Heilsh	e, "Pa norn ar	rkervision, Ir nd Associate	nc. Ani es, 2 P	nounces First Significant Dea ages (November 7, 1994).	aler Sale of Its	Cameraman	® System II,"
	AR	<u>23</u>	Press Releas Associates, 2	e, "Pa Page	rkervision, Ir s (March 1,	nc. Ani 1995).	nounces Fourth Quarter and	Year End Resu	ults," Lippert/	Heilshorn and
EXAMINER	L		<u> </u>					DATE CONS	IDERED >	

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JUL 1 6 2002

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							T DOCUMENTS				المنهير	Septer .
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E		CLASS		SUB- CLASS	FILING DATE
	AA24	5,35	5,114	10/1	994	Sutte	rlin <i>et al</i> .		340	, Kare	310 A	
	AB24	5,36	1,408	11/1	994	Wata	inabe <i>et al.</i>		455	,pr	324	
	AC24	5,36	9,800	11/1	994	Taka	gi <i>et al</i> .		455 <i>/</i> *	·	59	
	AD24	5,37	'5,146	12/1	994	Chal	mers		3 <del>/</del> 1/5		103	
	AE24	5,37	9,040	01/1	995	Mizo	moto <i>et al</i> .		341		143	
	AF24	5,37	9,141	01/1	995	Thon	npson <i>et al.</i>	غم	359		125	
	AG24	5,38	8,063	02/1	995	Taka	tori <i>et al</i> .	<u>R</u> PON	364		724.17	
	AH24	5,39	0,364	02/1	995	Web	ster <i>et al.</i>		455		52.3	
	Al24	5,40	0,084	03/1	995	Scar	ра	A STATE OF THE STA	348		624	
					FOREIGN	N PAT	NT DOCUMENT	ş/				-
EXAMINER INITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	•	CLASS		SUB- CLASS	TRANSLATION
	AJ24						AEC	EIVE				Ye N
	AK24						/ JUL	1 8 2002	2			Ye: No
•	AL24						Technolog	y Center 2	2600			Yes No
	AM24		-			de la companya de la						Yes No
	_	•	отні	ER (Inc	cluding Aut	þór, Ti	tle, Date, Pertine	nt Pages, e	etc.)			**************************************
	AN	<u>24</u>	Press Releas Associates, 2				nounces Joint Prod	duct Develo	pments Wit	th <b>V</b> 1	TEL," Lippe	rt/Heilshorn and
	AO	<u>24</u>	Press Releas Associates, 3				nounces First Qua	rter Financi	al Results,"	Lipp	oert/Heilsho	rn and
	АР	<u>24</u>	Press Releas Manufacturin	e, "Pa g Head	rkervision W dquarters, 1	/ins To Page (	p 100 Product Dis June 29, 1995).	tricts' Choic	e Award," I	Park	ervision Ma	rketing and
	AQ	24	Press Releas Manufacturing	e, "Pa g Head	rkervision Nadquarters, 1	ational Page (	Sales Manager N July 6, 1995).	ext Preside	nt of USDL	A," F	Parkervision	Marketing and
	AR	<u>24</u>	Press Releas Page (July 21			ranted	New Patent," Parl	kervision Ma	arketing and	d Ma	anufacturing	Headquarters, 1
EXAMINER			00	<del></del>					DATE CO	NSIL	DERED	

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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

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FILING DATE

EXAMINER INITIAL	AA25 AB25 AC25 AD25	5,40 5,41	CUMENT //BER 4,127 0,541	DAT	E	NAM		CLASS	SUB- CLASS	FILING DATE
	AB25 AC25 AD25	5,40 5,41	MBER 14,127	04/19					/ CLASS	FILING DATE
	AB25 AC25 AD25	5,41	<del></del>	<del>                                     </del>	995	100		1000	*	
	AC25 AD25		0,541			l ree e	et al.	340	310.02	1
	AD25	5,41		04/19	995	Hotto	)	370/	76	
			0,743	04/19	995	Seel	ı et al.	455	326	
	A E O C	5,41	2,352	05/19	995	Grah	am	/332	103	
	AE25	5,41	6,803	05/19	995	Jane	r	375	324	
	AF25	5,42	2,913	06/19	995	Wilki	nson	375	347	
*	AG25	5,42	3,082	06/19	995	Cyga	n <i>et al.</i>	455	126	
	AH25	5,42	8,638	06/19	95	Cioffi	et al.	375	224	
	AI25	5,42	8,640	06/19	995	Towr	ley	375	257	
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XAMINER NITIAL		DOC	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
	AJ25						/			١
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	AK25						<i>. 1</i>	1		)
	AL25							<u> 1 8 2002                                 </u>		\
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	AM25					Jack .		2000		,
					/.	<i>!</i>	tle, Date, Pertinent			
	AO 2	<u>25</u>	Press Releas	e,/'Par	rkervision, Ir Headquarter	nc. Exp	ands Its Cameramar ages (September 22,	n System II Product L 1995).	ine," Parkervi	ision Marketing
,	AP 2	<u>25</u>	Press Releas Manufacturing	e, "Pai g Head	rkervision Ar Iquarters, 2	nnound Pages	es New Camera Cor (October 25, 1995).	ntrol Technology," Pa	rkervision Ma	rketing and
,	AQ 2	25	Press Releas Parkervision I	e, "Paı Market	kervision, Ir ing and Mar	nc. Ann nufactu	ounces Completion or ring Headquarters, 2	of VTEL/Parkervision Pages (October 30,	Joint Produc 1995).	t Line,"
		,					ounces Third Quarte irters, 2 Pages (Octo	r and Nine Months F ber 30, 1995).	inancial Resu	lts," Parkervisio
A	AR 2	<u>25</u>	warketing and							
XAMINER	AR 2	<u>:0</u>	Co	<del></del>				DATE CON	SIDFRED /	)

ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

APPLICANT Sorrells et al

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					U.S. P	ATEN	T DOCUMENTS			
EXAMINER INITIAL		,	CUMENT MBER	DAT	E	NAM	E	CLASS	SUB-	FILING DATE
	AA26	5,43	4,546	07/19	995	Palm	er	332	151	
·	AB26	1	8,692	08/19	995	Mohi	ndra	455	<i>,</i> 3̃24	
	AC26	5,44	4,415	08/19	995	Dent	et al.	329	302	
	AD26	5,44	4,416	08/19	995	Ishik	awa et al.	329 🔏	341	
	AE26	5,44	4,865	08/19	995	Heck	et al.	455 /	86	
	AF26	5,44	6,421	08/19	995	Kech	kaylo	332	100	
	AG26	5,44	6,422	08/19	995	Matti	la et al.	,832	103	
	AH26	5,44	8,602	09/19	995	Ohm	ori et al.	375	347	
	Al26	5,45	1,899	09/19	995	Lawt	on /	329	302	
					FOREIGN	I PATI	ENT DOCUMENTS			
EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ26						RECEIVED			Yes No
	AK26						JUL 1 8 2002			Yes No
	AL26				Technology Center 2					Yes No
	AM26					. ;		,		Yes No
			ОТНЕ	R (Inc	luding Auth	nor, T	tle, Date, Pertinent Pages, etc.	.)		
	AN	<u>26</u>	Press Releas Parkervision l	e, "Pa Marke	rkervision's Ç ting and Man	Gamer lufactu	aman Personal Locator Camera ring Headquarters, 2 Pages (No	System Wir vember 1, 1	ns Telecon X' 995).	V Award,"
	AO	<u>26</u>	Press Releas Marketing and	e, "Pa d Man	rkervision, In ufacturing He	nc. Anr eadqua	nounces Purchase Commitment arters, 1 Page (February 26, 199	From VTEL 6).	Corporation,	' Parkervision
	AP	<u>26</u>					nounces Fourth Quarter and Yea ages (February 27, 1996).	ar End Resul	its," Parkervis	sion Marketing
	AQ	<u>26</u>	Press Releas Headquarters	e, "Pa , 2 Pa	rkerVision, Ir ges (March 7	nc. Exp 7, 1996	pands its Product Line," Parkervi 6).	sion Marketi	ing and Manu	ufacturing
	AR  26  Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision M and Manufacturing Headquarters, 1 Page (March 28, 1996).								ion Marketing	
EXAMINER	L		Co				D	ATE CONSI	DERED 3	3

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INFORMATION DISCLOSUSE STATEMENT

ATTY. DOCKET NO. 1744.0920001

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APPLICANT

Sorrells et al

FILING DATE
April 14, 20

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						ATEN	T DOCUMENTS	1850	·	
EXAMINER INITIAL			CUMENT MBER	DAT	E	NAM	E	CLASS	SUB- CLASS	FILING DATE
	AA27	5,45	4,007	09/1	995	Dutta		<sub>⊿</sub> √375	322	
	AB27	5,45	4,009	09/19	995	Fruit	et al.	372	202	
	AC27	5,46	3,356	10/1	995	Palm	er 🔏	332	117	
	AD27	5,46	3,357	10/1	995	Hobo	en 🦯	332	151	
	AE27	5,46	5,071	11/1	995	Koba	yashi <i>et al.</i>	329	315	
	AF27	5,46	5,410	11/19	995	Hiber	n et al.	455	266	
<del></del>	AG27	5,46	5,415	11/19	995	Bien		455	326	
	AH27	5,47	1,162	11/19	995	McE	van 🦯	327	92	<del></del>
	Al27	5,47	9,120	12/19	<del> </del>	McE		327	91	<u> </u>
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	AJ27			,			/ RECEIVED	)		Yes No
	AK27						JUL 1 8 2002			Yes No
	AL27					$\mathcal{L}$	Technology Center 26	300		Yes No
	AM27						••			Yes No
			ОТН	R (In	cluding Aut	hor, Ti	tle, Date, Pertinent Pages, e	tc.)		
·	AN	<u>27</u>					nounces First Significant Sale ring Headquarters, 2 pages (A			-Chip System,"
	AO	<u>27</u>	Press Releas Marketing an	e, "Pa d Man	rkervision, Ir ufacturing H	nc. Intr eadqua	oduces New Product Line For arters, 2 Pages (April 15, 1996	Studio Prod	uction Market,	" Parkervision
	АР	<u>27</u>	Press Releas and Manufac	e, "Pa turing	rkervision, Ir Headquarter	nc. Anr rs, 1 Pa	ounces Private Placement of ige (April 15, 1996).	800,000 Sha	ıres," Parkervi	sion Marketing
	AQ	<u>27</u> /					ounces First Quarter Financia (April 30, 1996).	al Results," P	arkervision M	arketing and
	AR	<u>27</u>	Press Releas Headquarters	e, "Pa s, 2 Pa	rkerVision's ges (June 5,	New S , 1996)	tudio Product Wins Award," P	arkervision N	∄arketing and	Manufacturing
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ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642 APPLICANT Sorrells et al.

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	AA28	5,47	9,447	12/1	995	Chov	v et al.		375	260	
	AB28	5,48	3,193	01/1	996	Kenr	edy et al.	•	329	300	
	AC28	5,48	3,549	01/19	996	Weir	berg <i>et al</i> .		37/5	200	
	AD28	5,48	3,691	01/1	996	Heck	et al.		455	234.2	
	AE28	5,49	0,173	02/19	996	Whik	ehart <i>et al</i> .	, And the second	<b>375</b>	316	
	AF28	5,49	3,581	02/1	996	Your	g et al.	f	375	350	
	AG28	5,49	3,721	02/19	996	Reis			455	339 554 113	
	AH28	5,49	5,200	02/1	996	Kwai	n et al	, f	327		
	Al28	5,49	5,202	02/1	996	Hsu		/	327		<u> </u>
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	AJ28						DECEN	VED			Ye N
	AK28						RECEI				Ye N
	AL28					JUL 18				Ye N	
*****	AM28	-			*Technology Center 260						Ye · N
					<u> </u>	Author, Title, Date, Pertinent Pages, etc.)					
	AO	<u>28</u> <u>28</u>	Marketing and	e, "Pa	ufacturing H	eadqu	nounces Second Quarters, 3 Pages (Aug nounces Third Quar arters, 2 Pages (Oc	gust 1, 1996	).  Months Fin	_	
	AP	<u>28</u>	Manufacturin	g Head	dquarters, 2	Pages	Vision Sign Reselle (October 30, 1996)	).			
	AQ 28 Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to \Pages (January 20, 1997).									g, Ol	
AR  28  Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision and Manufacturing Headquarters, 3 Pages (February 27, 1997).								ision Marketing			

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INFORMATION DISCLOSURE

ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

APPLICANT Sorrells et al.

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	AA29	5,49	95,500	02/19	996	Jova	novich et al.		375	206	
	AB29		9,267	03/19	996	Ohe	et al.		375	206	
	AC29	_	0,758	03/19	996	Thor	npson et al.		359	189	
	AD29	5,51	7,688	05/19	996	Faje	n et al.		455	333	
	AE29		9,890	05/19	996	Pincl			455	307	
	AF29	+	23,719	06/19	996	Long	o et al.		327	557	
	AG29	5,52	23,726	06/19	996	Kroe	ger <i>et al.</i>	- /	332	103	
	AH29	1	23,760	06/19	996	McE	<del></del>		342	89	
	Al29		9,770	07/19	996	Ishig	aki	7	375	206	
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EXAMINER INITIAL		DOC	CUMENT NUMI	BER	DATE		COUNTRY		CLASS -	SUB- CLASS	TRANSLATION
	AJ29				•		REÇEIVI	=			Yes No
	AK29				1 /.					·	Yes No
	AL29				JUL 1 8 2002 Technology Center 260						Yes No
	AM29			·		Permology Center 2600			Ŷ		Yes No
	•	•	OTHE	R (Inc	ludina Auti	hor. Ti	tle, Date, Pertinen	t Pages, et	(c.)	•	
	AN	<u>29</u>	Press Releas	e, "Pa	rkervision, In	ng. Ani	nounces First Quart (April 29, 1997).			rkervision M	arketing and
	AO	<u>29</u>	Press Releas 1997).	e, "NE	C and Parke	ervisio	n Make Distance Le	earning Clos	ser," NEC Am	erica, 2 Pag	es (June 18,
	АР	<u>29</u>	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars N Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).							or Mars Mission,"	
	AQ	<u>29</u>	Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervisi Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).							Parkervision	
	AR	<u>29</u>	Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervis Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).								llts," Parkervision
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0920001	APPLICATION NO. 09/550,642
APPLICANT Sorrells et al.	
FILING DATE April 14, 2000	GROUP 2634

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	AA30			09/1996		Kajimoto <i>et al.</i>		455	266	
	AB30 5,557,641 09/1996 AC30 5,557,642 09/1996		9/1996 Weinberg		375	295				
•					nms	37,5	316			
	AD30	5,579,	,341	11/19	996	Smith	n et al.	<i>j</i> 875	267	
· · ·	AE30	5,579,	347	11/19	996	Lindo	uist <i>et al.</i>	375	346	
	AF30	5,584,	,068	12/19	996	Mohi	ndra /	455	324	
	AG30	5,592,	131	01/19	997	Labre	eche et al.	332	103	
	AH30	5,602,	,847	02/19	997	Paga	no <i>et al.</i>	370	484	
	Al30	5,602,	,868	02/19	997	Wilso	on /	375	219	
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	AO				Mart Chas	D				
	1 1	30					arkervision for Broadcast Prod (October 24, 1997).	uction," Parke	ervision Marl	keting and
	AP	30	Manufacturing Press Releas Manufacturing	e, "Pad Head Head e, "Pa	rkervision, Irdquarters, 3	nc. Ann Pages		al Results," P	arkervision I	Marketing and
EXAMINER		30	Press Releas Manufacturing Press Releas Marketing and	e, "Pad Mande, "Padeensing	rkervision, Ir dquarters, 3 rkerVision A ufacturing Horkervision, Ir g - Wireless	nc. Ann Pages announ eadqua	(October 24, 1997).  nounces Third Quarter Financi (October 30, 1997).  ces Breakthrough in Wireless arters, 3 Pages (December 10 nounces the Appointment of Joologies," Parkervision Marketi	Radio Freque, 1997).	arkervision I	Marketing and logy," Parkervision of Vice

raye or or ou APPLICATION NO. ATTY. DOCKET NO. 1744.0920001 09/550,642 FORM PTO-1 APPLICANT Sorrells et al. GROUP FILING DATE April 14, 2000 2634 **U.S. PATENT DOCUMENTS EXAMINER CLASS** SựB-**FILING DATE** DATE NAME INITIAL **DOCUMENT ÉLASS** NUMBER 370 342 AA31 5,604,732 02/1997 Kim et al. 386 1 AB31 5,608,531 03/1997 Honda et al. 375 269 Tanaka et al. AC31 5,610,946 03/1997 04/1997 Nicollini 327 554 AD31 RE 35,494 **2**75 340 AE31 04/1997 Mimura et al. 5,617,451 375 328 04/1997 Sempel et al. AF31 5,619,538 6 5,621,455 04/1997 348 AG31 Rogers et al. AH31 05/1997 Bella et al. 455 324 5,630,227 375 202 **AI31** 5,640,415 06/1997 Pandula FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION INITIAL **CLASS** Yes AJ31 No RECEIVED Yes AK31 No JÚL 1 8 2002 Yes AL31 No **řęćhn**ology Center 2600 Yes AM31 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision Announces Existing Agreement with IBM Terminates -- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages AN <u>31</u> (January 27, 1998). Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and AO <u>31</u> Manufacturing Headquarters, 2 Pages (March 3, 1998). Press Release/"Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision AP <u>31</u> Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998). Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and AQ <u>31</u> Manufacturing Headquarters, 2 Pages (April 15, 1998).

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**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Manufacturing Headquarters, 3 Pages (May 4, 1998).

Press Release. "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT COLUMN

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APPLICATION NO. 09/550,642

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FILING DATE April 14, 2000

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	AA32	5,64	0,424	06/1	997	Bana	vong et al.	375	316	
	AB32	5,64	0,428	06/1	997	Abe 6	et al.	375	<sup>#</sup> 334	
	AC32	1	0,698	06/1	997	Shen	et al.	455	323	
•	AD32	1	8,985	07/1997 07/1997		Biere	de <i>et al.</i>	375	219	
	AE32	+	<del></del>			Roda	··········	342	357	
	AF32	1	5,650,785 5,661,424		08/1997			<i>f</i> 327	105	
	AG32	·	3,878	09/19		Tang Walk		363	159	
	AH32	+	3,986	09/19		Striffl		375	260	
	Al32	+	B,836	09/19		<del>                                     </del>	n et al.	375	316	
	AI32	3,000	0,030	109/1			ENT DOCUMENTS	13/3	1310	
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	AM32		ОТН	ER (In	L cluding Auti		/ tle, Date, Pertinent Pages	s, etc.)		
	AN	32	Press Releas	se, "Pa	ırkervision 'D	hor, Ti		ponse to Market	Demand," P	
		32	Press Releas Marketing an	se, "Pa d Man	rkervision 'D ufacturing H	hor, Ti	tle, Date, Pertinent Pages  2DATA' Introduced in Res arters, 3 Pages (July 9, 199	ponse to Market 98).		arkervision
	AN		Press Releas Marketing an Press Releas Headquarters	se, "Pad Man	urkervision 'D ufacturing H urkervision E ges (July 29	hor, Ti	tle, Date, Pertinent Pages  2DATA' Introduced in Res arters, 3 Pages (July 9, 199	ponse to Market 98). n," Parkervision x Month Financia	Marketing an	arkervision od Manufacturing
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ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

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Sorrells et al

FILING DATE April 14, 2000

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	AA33	5,68	0,078	10/19	97 Ariie		Ariie		178				
	AB33	5,68	0,418	10/1	997	Croft	et al.	375 /	346				
	AC33	5,68	9,413	11/19	997	Jarar	nillo <i>et al</i> .	363	146				
	AD33	5,69	9,006	12/19	997	Zele	et al.	327	341	·			
·	AE33	5,70	5,955	01/19	998	Freel	ourg et al.	/ 331	14	<u> </u>			
	AF33	5,71	0,998	01/19	998	Opas		455	324				
	AG33	5,71	4,910	02/19	998	Skoc	zen <i>et al.</i>	331	3				
	AH33	5,71	5,281	02/19	998	Bly e	t al.	375	344				
	AI33	5,72	1,514	02/19	998	Croc	kett et al.	331	3				
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	AK33									Ye N			
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<u> </u>	AM33		-			Technology Center 2600				Yes			
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	Headquarters, 2 Pages (Mar					"Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing 2 Pages (March 5, 1999).  "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Manufacturing Headquarters, 3 Pages (March 5, 1999).							
.= ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,- ,-													
	АР	<u>33</u>	Press Release Marketing and	e, "do I Man	int Marketing ufacturing H	g Agree eadqua	ement Offers New Automated arters, 2 Pages (April 13, 199	Production S 9).	olution," Par	kervision			
	AP	<u>33</u> <u>33</u>	Marketing and	,Man 	ufacturing H	eadqua	arters, 2 Pages (April 13, 199	9).					
			"Project COST Vol. LIV, No. 3	Γ 205: 3, pp.	ufacturing H	eadqua s in Ea	arters, 2 Pages (April 13, 199	9).					

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ATTY. DOCKET NO.
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APPLICATION NO.
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	AA34	+	4,002	03/1998		Hulic	:k	329	361/80		
	AB34	5,724,653		03/1998		Bake	er et al.	455	296		
	AC34 5,729,577 03/19			998	Cher	) .	375	<b></b>			
	AD34 5,729,829 03/19				998	Talw	ar et al.	455 ,0	63		
				03/19		Cox	<del></del>	455	126		
	AF34	5,736,895		04/1		Yu e	t al.	<b>3</b> 27	554		
	AG34			04/19		Rotz	<del></del>	∡ 348	725		
	AH34	+	2,189	04/19		1	ida et al.	327	113		
	Al34	+	8,683	05/19		<del> </del>	h et al.	375	347		
	17404	0,14	0,000	00/11			ENT DOCUMENTS	10.0		<del></del>	
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	AJ34						JUL \$\frac{1}{8} 2002			Yes No	
	AK34						1 -7			Yes No	
	AL34						echnology Center 2600			Yes No	
	AM34				/				Yes		
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	AN	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morg Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).									
•	AO	<u>34</u>	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).								
	АР	<u>34</u>	Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).								
	AQ	<u>34</u> /	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-I IEEE MTT-S International Microwave Symposium Digest, IEEE, pp. 267-269 (June 27-29, 1978).								
	AR	3 <u>4</u>					se Analysis of MESFET and I EE, Vol. 37, No. 9, pp. 1401-			eactions on	
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FORM PTO-144 INFORMATION DISCLOSURE

APPLICATION NO. 09/550,642 ATTY. DOCKET NO. 1744.0920001 APPLICANT . Sorrells et al. GROUP 2634 FILING DATE April 14, 2000

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	AA35	RE:	35,829	06/1	998	Sand	lerford, Jr.	375	200			
	AB35	5,76	0,645	06/19	998	Com	te et al.	329	304			
	AC35	5,76	4,087	06/1	998	Clark		327/	105			
	AD35	5,76	7,726	06/19	998	Wang Faulk et al.		<b>3</b> 27	356	1		
	AE35	<del></del>	8,118	06/19				363	72			
	AF35		1,442	06/1		<del>                                     </del>	g et al.	455	93			
	AG35		7,692	07/1		Ghos	<del></del>	348	725			
	AH35	<del></del>	7,771	07/19		Smit		359	180			
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	AJ35						. /			Yes		
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	AN	<u>35</u>	Rowe, H.E., S Jersey, includ	Signals ling, fo	s and Noise or example,	in Com Chapte	nmunication Systems, D. Van No r V, Pulse Modulation Systems	ostrand Com (1965).	pany, Inc., P	rinceton, New		
	AO	<u>35</u>	Rücker, F. an Dependence,	d Dint " <i>Elec</i> i	elmann, F., ' trofiics Letter	'Effect rs, IEE	of Antenna Size on OTS Signal , Vol. 19, No. 24, pp. 1032-1034	l Scintillations and Their Seasonal 4 (November 24, 1983).				
	АР	<u>35</u>				, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference</i> ve Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).						
	AQ	Australia, pp. 218-223 (October 16-18, 1990).  Solous S. "IE digital generation of EMCW was of some fact wideband abanda barred specialization." IEE Proceedings										
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Page 38 of 56 APPLICATION NO. Y. DOCKET NO. 0920001 09/550,642 FORM PTO-1449 JUL 16 2002 risels et al. INFORMATION DISCLÓSURE STATEMEN GROUP FILES DATE Apx 14, 2000 2634 SERATENT DOCUMENTS **EXAMINER** CLASS INITIAL SUB-FILING DATE DOCUMENT DATE NAME. **CLASS** NUMBER 455 302 AA38 5,901,349 05/1999 Guegnaud et al. 327 308 05/1999 Miyatsuji et al. AB38 5,903,178 05/1999 Claverie et al. 329 342 AC38 5,903,187 AD38 331 16 05/1999 Salvi et al. 5,903,196 58 361 AE38 5,903,421 05/1999 Furutani et al. 370 338 ÀF38 05/1999 Sakamoto et al. 5,903,553 375 207 Suzuki AG38 05/1999 5,903,595 375 261 **AH38** 5,903,609 05/1999 Kool et al. 455 326 05/1999 AI38 5,903,827 Kennan et al. FOREIGN PATENT DOCUMENTS **EXAMINER** COUNTRY **CLASS** SUB-**TRANSLATION DOCUMENT NUMBER** DATE INITIAL CLASS Yes AJ38 No Yes **AK38** No Yes AL38 No Technology Center 2600 Yes **AM38** No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Stafford, K.R. et al. f"A Complete Monolithic Sample/Hold Amplifier," IEEE Journal of Solid-State Circuits, IEEE, AN 38 Vol. SC-9, No. 6, pp. 381-387 (December 1974). Staruk, W. Jr. et al., "Pushing HF Data Rates," *Defense Electronics*, EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985). AO <u>38</u> Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," Electronics, McGraw-Hill, AP 38 pp. 106-110 (March 27, 1972). Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," The Review of Scientific Instruments, 38 AQ American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957). Sylvain, M., "Experimental probing of multipath microwave channels," Radio Science, American Geophysical AR 38

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Page 39 of 56 ATTY. DOCKET NO. APPLICATION NO. 1744.0920001 09/550,642 FORM PTO-1449 JUL 1 6 2002 APPLICANT Sorrells et al. ATEMENT INFORMATION DISCLOSURE ST GROUP FILING DATE April 14, 2000 2634 U.S. PATENT DOCUMENTS **EXAMINER** CLASS INITIAL DOCUMENT DATE NAME SUB-FILING DATE **NUMBER** CLASS 455 575 **AA39** 5,903,854 05/1999 Abe et al. **AB39** 5,905,449 05/1999 Tsubouchi et al. 340 925.69 Marckini 235 487 AC39 5,907,149 05/1999 05/1999 Faulk 307 119 AD39 5,907,197 06/1999 Nosswitz 455 83 AE39 5,911,116 554 AF39 5,911,123 06/1999 Shaffer et al. 455 327 172 Inoue AG39 5,914,622 06/1999 **AH39** 5,920,199 07/1999 Sauer 324 678 08/1999 Smith 375 334 **AI39** 5,943,370 FOREIGN PATENT DOCUMENTS **EXAMINER** ÇÓUNTRY **CLASS** SUB-**TRANSLATION** INITIAL **DOCUMENT NUMBER** DATE **CLASS** Yes AJ39 No Yes AK39 AL39 Yes No Yes AM39 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Takano, T., "NOVEĹ GaAs Pet Phase Detector Operable To Ka Band," IEEE MT-S Digest, IEEE, pp. 381-383 AN 39 (1984).Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," IEEE Transactions on Circuits and Systems- f: Fundamental Theory and Applications, IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-AO <u> 39</u> 275 (April 1993). Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," IEEE Transactions on Consumer AΡ <u>39</u> Electronics, IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986). Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," AQ 39 Electronics Letters, IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992). Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface AR <u>39</u> Meteorological Parameters," Eighth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

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FORM PTO-1449 INFORMATION DISCLOSURE

APPLICATION NO. ATTY. DOCKET NO. 09/550,642 1744.0920001

APPLICANT

Sorrells et al.

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	AC40	4,25	3,067	02/1	981	Caple	es et al.	329	110	
	AD40	4,39	3,395	07/1	983	Hack	e et al.	358	23	
	AE40	4,81	6,704	03/1	89 Fiori,		Fiori, Jr.		519	<u> </u>
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	AI40	5,35	3,306	10/19			amoto	375	14	
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	,		Tourfile A.N. o	nd Vi	lor E "Dyn			zon Signal at Y. hand	l Over a Sea	Path " Sixth
		40	International ( 4-7, 1989).	Confe	rence on Ani	amic S tennas	tructure of a Transhori and Propagation (ICAI	P 89) Part 2: Propag	ation, IEE, p	p. 446-450 (April
		<u>40</u>	International (4-7, 1989). Tawfik, A.N. a	ind Vi	rence on Ani	amic S tennas	tructure of a Transhoria	P 89) Part 2: Propag	ation, IEE, p	p. 446-450 (April
	AO		Tawfik, A.N. a Path/Loss, Du	and Vinics L	lar, E., "Stati etters, IEE,	amic S tennas istics o Vol. 26	tructure of a Transhoriand Propagation (ICA)	P 89) Part 2: Propag y of Path Loss in a March 29, 1990). ents of CW Transmis	flicrowave Transisions Over the nas and Project	p. 446-450 (April
	AO	<u>40</u>	International (4-7, 1989).  Tawfik, A.N. a Path," Electro  Tawfik, A.N. a Path Loss, Du Antennas and	and Vinics Land Vinics Land Vinics Prop	lar, E., "Stati Letters, IEE, lar, E., "X-Ba n of Events, a agation Soci	amic S tennas istics o Vol. 26 and Tra and Thiety, Vo	tructure of a Transhorizand Propagation (ICAI  f Duration and Intensity No. 7, pp. 474-476 (No. 7, pp. 474-476)  anshorizon Measuremeeir Modeling," IEEE Transl. 41, No. 11, pp. 1491	y of Path Loss in a March 29, 1990).  ents of CW Transmisensactions on Anter-1500 (November 19	flicrowave Transions Over the nas and Property (1993).	anshorizon Sea- he Sea- Part 1:
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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT Sorrells et al.

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	AA41	5,51	5,014	05/19	996	Trou	tman	1	332	178			
	AB41	5,56	3,550	10/19	996	Toth			329	347			
	AC41	5,57	4,755	11/19	996	Pers	ico	1	375	295			
	AD41	5,60	4,592	02/19	997	Kotid	is et al.	356	357				
	AE41	5,63	8,396	06/19	6/1997 K		Klimek		372	92	T		
	AF41	5,67	5,392	10/19	997	Nayebi et al.			348	584			
	AG41	5,69	4,096	12/19	997	Ushi	oku et al		333	195			
	AH41	5,75	7,870	05/19	05/1998		et al.		375	367			
	Al41		8,323	06/19	998	Kroe	ger e <i>l al.</i>		375	355			
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	AN	<u>41</u>	Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibit and Publishers, pp. 754-759 (September 8-12, 1986).										
	AO	<u>41</u>	Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).										
	АР	<u>41</u>	Tsjvidis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).										
	AQ	41/	Tsividis, Y., "I IEEE, Vol. 71	Princip , No. 8	oles of Opera 3, pp. 926-94	tion ai 0 (Aug	nd Analysis of gust 1983).	Switched-Capa	citor Circuits,"	Proceeding	s of the IEEE,		
	AR	<u>41</u>	and 2.6 Ghz E	Band F	Radio Commi	unicati	tudy on a Direction Systems," 4	11 <sup>st</sup> IEEE Vehic	Receiver Front- cular Technolog	End for 280	MHZ, 900 MHZ, сө, IEEE		
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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

APPLICANT

Sorrells et al. FILING DATE

GROUP 2634

April 14, 2000 **U.S. PATENT DOCUMENTS EXAMINER CLASS** SUB-FILING DATE INITIAL DOCUMENT DATE NAME **CLASS** NUMBER 333 AA42 5,770,985 06/1998 Ushiroku et al. 193 375 206 AB42 5,778,022 07/1998 Walley 370 342 Zhou et al. AC42 5,812,546 09/1998 AD42 10/1998 Miya et al. 375 206 5,818,869 332 105 AE42 5.844.449 12/1998 Abeno et al. 323 315 AF42 5,872,446 02/1999 Cranford, Jr. Et al. 370 508 AG42 5,909,447 06/1999 Cox et al. AH42 08/1999 Sehier et al. 375 350 5,933,467 332 128 **AI42** 5,952,895 09/1999 McCune, Jr. et al. FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-**TRANSLATION CLASS** AJ42 RECEIVED No Yes AK42 8 2002 No. Yes AL42 Technology Center 2600 No AM42 Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Valdmanis, J.A. *et al.*, "Picosecond and Subpicosend Optoelectronics for Measurements of Future High Speed Electronic Devices," *IEDM Technical Digest*, IEEE, pp. 597-600 (December 5-7, 1983). AN 42 van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," Electronics AO <u>42</u> Letters/IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998). vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," AP <u>42</u> Electronics Letters, IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998). Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," IEEE Transactions on Vehicular Technology, IEEE Vehicular Technology Society, Vol. 46, No. 4, AQ pp. 1027-1039 (November 1997). Vierira-Ribeiro, S.A., Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass AR 42 Sigma-Delta Modulator, Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995). **EXAMINER** DATE CONSIDERED

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to Applicant.

**EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

8, No. 20, pp. 509-511 (October 5, 1972).

Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," Electronics Letters, IEE, Vol.

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APPLICATION NO. ATTY. DOCKET NO. 09/550,642 1744.0920001 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOS GROUP FILING DATE April 14, 2000 2634 U.S. PATENT DOCUMENTS **EXAMINER CLASS** SĮ∕B-**FILING DATE** INITIAL DOCUMENT DATE NAME ÉLASS NUMBER 235 **AA44** 5,841,811 11/1998 Song 375 **AB44** 343 180 4,051,475 09/1977 Campbell AC44 455 195.1 5,953,642 09/1999 Feldtkeller et al. 455 209 AD44 4,653,117 03/1987 Heck **3**75 AE44 316 5,859,878 01/1999 Phillips et al. 455 126 AF44 5,894,496 04/1999 Jones 73 658 AG44 5,915,278 06/1999 Mallick 375 AH44 Harrison et al. 206 6,028,887 02/2000 **Al44** 6,081,691 06/2000 Renard et al. 455 12.1 04/14/1998 FOREIGN PATENT DOCUMENTS **EXAMINER CLASS** INITIAL DOCUMENT NUMBER DATE COUNTRY SUB-TRANSLATION **CLASS** AJ44 Yes No AK44 Yes No AL44 Yes Technolday Center \$600 Nο Yes AM44 No OTHER (including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. *et al.*, "An experimental mm-wave receiver system for measuring phase noise due to atmospheric AN <u>44</u> turbulence," Proceedings of the 25th European Microwave Conference, Nexus House, pp. 114-119 (1995). Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 39, AO <u>44</u> No. 9, pp. 1306-1312 (September 1991). Vilar, E. et/al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," Fourth International ΑP 44 Conference on Antennas and Propagation (ICAP 85), Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985). flar, E., "Antennas and Propagation: A Telecommunications Systems Subject," Electronics Division Colloguium AQ 44 on Teaching Antennas and Propagation to Undergraduates, IEE, pp. 7/1-7/6 (March 8, 1988). Vilar, E. et al., "CERS\*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," AR 44 Electronics Division Colloquium on CERS- Communications Engineering Research Satellite, IEE, pp. 10/1-10/10 (April 10, 1984). **EXAMINER** DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

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conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

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Sorrells et al.

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	AA45	6,12	1,819	09/20	000	Tray	or	-	327	359	04/06/1998		
	AB45	6,14	4,236	11/20	000	Vice	et al.		327	<i>1</i> 13	02/01/1998		
	AC45	6,14	4,846	11/20	000	Dure			455	323	12/31/1997		
	AD45	6,17	5,728 B1	01/20	001	Mitar	na		455	323	03/03/1998		
	AE45	5,70	5,949	01/19	998	Alelyunas et al.			329	304			
	AF45 5,883,548 03/1999			999	Assa	rd <i>et al</i> .	329	306					
	AG45	4,48	1,484,143 11/1984		984	Fren	ch <i>et al</i> .		329	50			
	AH45	5,84	1,324	11/19	998	Willia	ıms		331	17			
	AI45	4,85	5,894	08/19	989	Asahi et al.			363	157			
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	AM45				٠		p <sup>e</sup>	<del></del>	y <del>center 20</del>	00	Yes		
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	AN	<u>45</u>	Vilar, E. and Electronics L	Moulsle etters,	ey, T.J., "Co IEE, Vol. 21	Comment and Reply: Probability Density Function of Amplitude Scintillations," 21, No. 14, pp. 620-622 (July 4, 1985).							
	АО	<u>45</u>	Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," <i>Electronic Letters</i> , IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992).										
AP Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," <i>Electronics Letters</i> No. 9, pp. 732 <sup>2</sup> 733 (April 25, 1991).									ө <i>г</i> s, IEE, Vol. 27				
	AQ	<u>45</u>	Vilar, É. and Paths," <i>Sixth</i> 150-154 (Apr	Interna	ational Confe	ation D	ependence of Amplit on Antennas and Pro	tude Scinti opagation	llations on Lo (ICAP 89) Pa	ow Elevation art 2: Propaga	Earth Space ation, IEE, pp.		
	AR	45	Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," 18 <sup>th</sup> European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 429-435 (September 12 - 15 1988).										
EXAMINER		30		· <u>·</u>					DATE CONSI	DERED /	.3		

Page 46 of 56 ATTY. DOCKET NO. APPLICATION NO. 1744.0920001 09/550,642 FORM PTO-144 APPLICANT Sorrells et al. INFORMATION DISCLOSUR FILING DATE GROUP April 14, 2000 2634 U.S. PATENT DOCUMENTS **EXAMINER** INITIAL **DOCUMENT** DATE NAME CLASS SUÉ **FILING DATE CLASS NUMBER** AA46 06/1994 455 78 5,319,799 Morita AB46 5,801,654 09/1998 341 144 Traylor AC46 5,369,404 11/1994 Galton 341 143 AD46 3,716,730 02/1973 Cerny, Jr. 295 **3**25 AE46 03/1978 4,080,573 Howell 439 AF46 4,334,324 06/1982 333 Hoover 455 AG46 4,369,522 01/1983 Cerny, Jr. et al. 455 333 AH46 5,465,418 11/1995 Zhou et al. 455 332 5,513,389 Al46 04/1996 Reeser et al. 455 311 FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL COUNTRY DOCUMENT NUMBER DATE **CLASS** SUB-TRANSLATION **CLASS** RECEIVED AJ46 Yes No JUL 1 8 2002 AK46 Yes No **Technology Center 2600** AL46 Yes No **AM46** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. and Matthews, P.A. "Importance of Amplitude Scintillations in Millimetric Radio Links," Proceedings of ΑN 46 the 4th European Microwaye Conference, Microwave Exhibitions and Publishers, pp. 202-206 (September 10-13, 1974). Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," IEEE Transactions on Antennas and Propagation, IEEE Antennas and AO <u>46</u> Propagation Society, Vol. AP-32, No. 4, pp. 340-346 (April 1984). Vilar, E., and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," AP <u>46</u> Electrofics Letters, IEE, Vol. 7, No. 18, pp. 566-568 (September 9, 1971). Ⅷilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band," Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE, pp. AQ 46 5/1-5/8 (January 17, 1991). Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and AR Limitations," Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE, 5 pages (January **4**6 23, 1986).

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ATTY. DOCKET NO. APPLICATION NO. 1744.0920001 09/550,642 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE ST FILING DATE GROUP April 14, 2000 2634 PATENT DOCUMENTS **EXAMINER CLASS** ร์ไปB-FILING DATE DATE NAME INITIAL DOCUMENT : CLASS NUMBER 363 **AA47** 5,959,850 09/1999 Lim 17 375 1 **AB47** 5,157,687 10/1992 Tymes 235 462.46 08/1999 Nakasuji et al. AC47 5,945,660 AD47 6,091,939 07/2000 Banh **4**55 102 02/18/1997 455 126 11/16/1998 **AE47** 6,091,941 07/2000 Moriyama et al. 235 472.01 01/21/1998 **AF47** 6,098,886 08/2000 Swift et al. 04/2001 345 173 06/07/1995 AG47 6,215,475 B1 Meyerson et al. **AH47** 6,049,706 04/2000 Cook et al. 455 313 10/21/1998 455 118 10/21/1998 **AI47** 6,061,551 05/2000 Sorrells et al. **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION CLASS AJ47 RECEIVED Nο AK47 Yes No Yes AL47 No Yes AM47 No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. and Senin, S., "Propagation phase noise identified using 40 Ghz satellite downlink," *Electronics Letters*, IEE, Vol. 33, No. 22, pp. 1901-1902 (October 23, 1997). AN 47 Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropigal (Belem) Regions," *Tenth International Conference on Antennas and Propagation*, Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997). AO 47 Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System AΡ <u>47</u> Diversity, AGARD, pp. 27-1 - 27-13 (October 18-22, 1982). Vilar E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," International Conference AQ on Satellite Communication Systems Technology, Electronics Division of the IEE, pp. 169-187 (April 7-10, <u>47</u> 1975). Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," AR 47 International Conference on Antennas and Propagation Part 2: Propagation, IEE, pp. 36-40 (November 28-30, 1978). **EXAMINER** DATE CONSIDERED **EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

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INFORMATION DISCLOSURE STATEMENT Sorrells et al.

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	AA48	6,06	51,555	05/2	000	Bultn	nan <i>et al.</i>	4	55	313	10/21/1998
	AB48	6,09	1,940	07/2	000	Sorre	ells et al.	4	55	118	10/21/1998
	AC48	6,26	6,518 B1	07/20	001	Sorre	ells et al.	4	55	118	08/18/1999
	AD48	6,35	3,735 B1	03/2	002	Sorre	ells et al.	4	55	118	08/23/1999
	AE48	6,37	0,371 B1	04/2	1/2002 Sorrells et al.			4	55	323	03/03/1999
	AF48	5,62	8,055	05/19	05/1997			4	55	89	
	AG48 5,678,220 AH48 5,926,065		10/19	997	Four	nier /	4	55	302		
			07/19	999	Wak	aie <i>t al. ∦</i>	3	29	304		
	Al48	3,62	2,885	11/19	971	Ober	dorf et al.	3	25	40	
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	AN	<u>48</u>	Vilar, E. et al. Antennas and	, "Wid d Prop	eband Chara agation, Elec	acteriz tronic	ation of Scattering Channels s Division of the IEE, pp. 2.3	," Ten 53-2.3	th Internat 358 (April 1	ional Confei 14-17, 1997)	rence on .
	AO	<u>48</u>	Vollmer, A, " and 56 (July 6	Compl 5, 199	lete GPS Red 8).	ceiver	Fits on Two Chips," <i>Electror</i>	ic De	sign, Pento	on Publishin	g, pp. 50, 52, 54
	АР	<u>48</u>	Voltage and 1 (November 19	Гіте F 986).	Resolution in	Digitiz	ing Oscilloscopes: Applicatio	n Not	e 348, Hev	wlett Packar	d, pp. 1-11
	AQ	48	Wan, K.W. <i>et</i> Oscillator," <i>Pi</i> Ltd., pp. 809-	roceed	lings of the 1	9th Eu	o the Simultaneous Measure ropean Microwave Conferen 9).	ment ce, Mi	of Phase a	and Amplitud exhibitions a	de Noises in nd Publishers
	AR	<u>/</u> <u>48</u>	Wan, K.W. et Synthesis of 0 pp. 331-335 (	Oscilla	tor Phase No	iances oise," <i>i</i>	and Autoregressive/Moving Proceedings Of the 43 <sup>rd</sup> Ann	Avera ual Sy	age Algorit Imposium (	thm for the Non Frequence	Measurement and Control, IEEE
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INFORMATION DISCLOSURE FRATEMENT TRACEMENT

ATTY. DOCKET NO. 1744.0920001 APPLICATION NO. 09/550,642

APPLICANT Sorrells et al.

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	AA49	4,48	33,017	11/1	984	Ham	pel et al.	382	17				
	AB49	09/2	93,095			Sorr	ells et al.			04/16/1999			
	AC49	09/2	93,342			Sorr	ells et al.			04/16/1999			
	AD49	09/5	550,644			Sorr	ells et al			04/14/2000			
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APPLICATION NO.

09/550,642

FORM PTO-1449

JUL 16 2002

ATTY. DOCKET NO. 1744.0920001

APPLICANT
Sorrells et al.

FILING DATE
April 14, 2000

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Sorrells et al.

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ATTY. DOCKET NO. 1744.0920001

APPLICATION NO. 09/550,642

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